Key Elements of the Clean Air Act and the Importance of Voluntary Programs



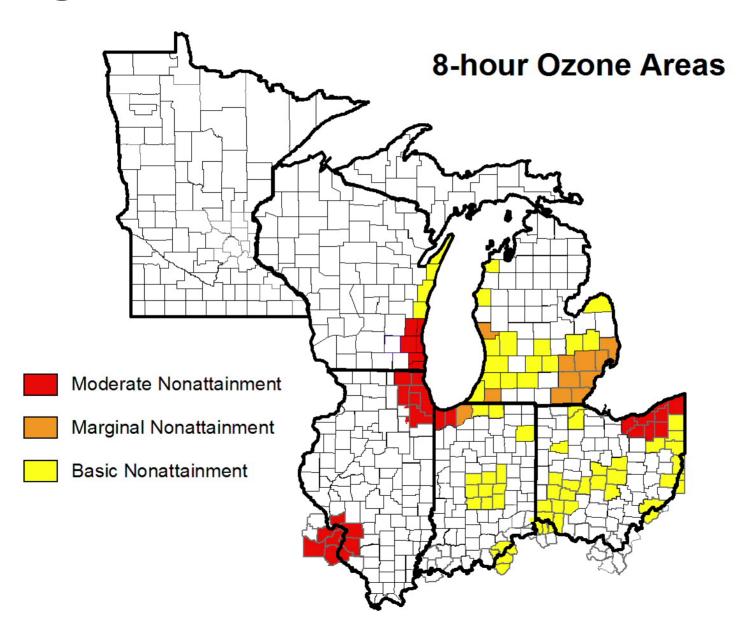
Tools for Cleaning Up Illinois Diesel: Technology, Funding, and Collaboration May 2, 2006

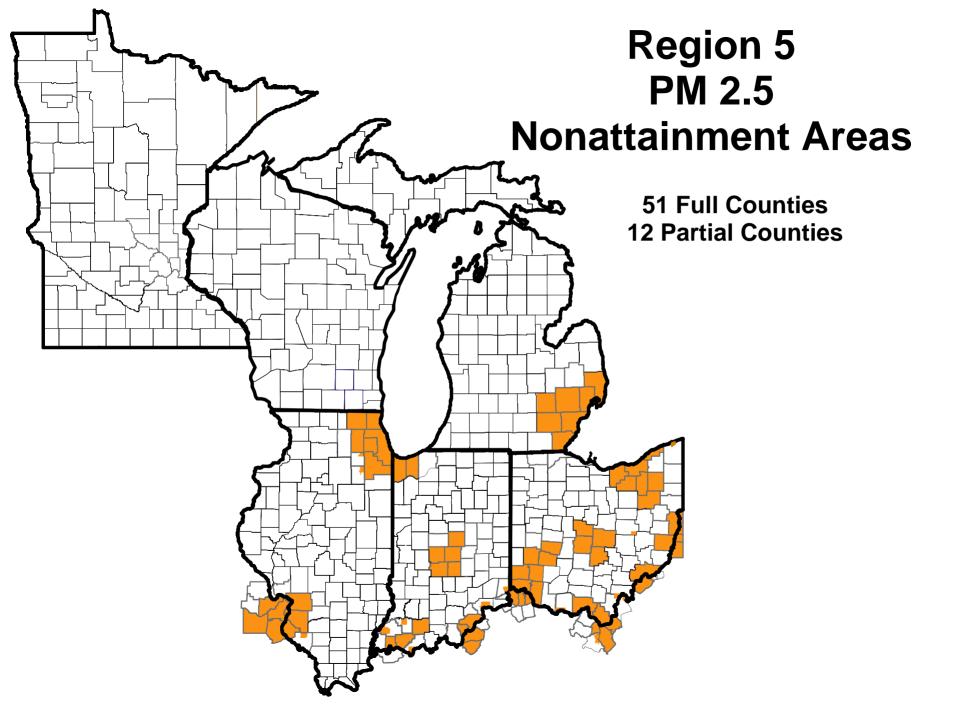


FY 2006 Priorities

- Implement 8-hr Ozone, PM2.5 and Regional Haze Programs
- Implement the Clean Air Interstate Rule
- Implement the Clean Air Mercury Rule
- Implement the Integrated National Ambient Air Monitoring Strategy
- Reduce Emissions from Existing Diesel Engines and Equipment
- Implement Air Toxics Initiatives that focus on Multi-Media and Cumulative Risk
- Title V permits
- Implement Voluntary Programs and Initiatives

Region 5 Ozone Nonattainment Areas







PM NAAQS Review: Process

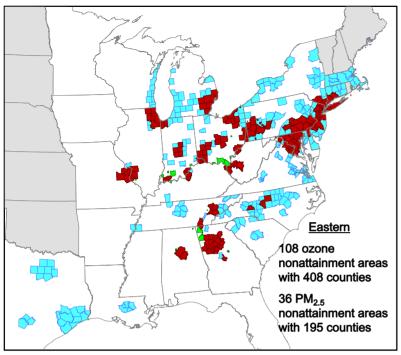


Summary of the Clean Air Interstate Rule

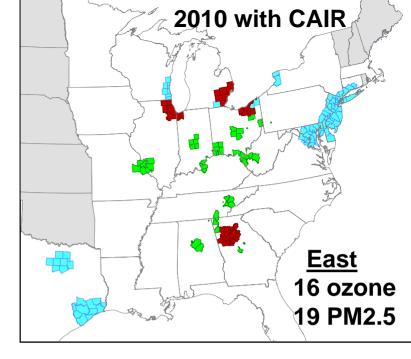
- CAIR will permanently cap emissions of sulfur dioxide (SO2) and nitrogen oxides (NOx) in the eastern United States.
- CAIR achieves large reductions of SO2 and/or NOx emissions across 28 eastern states and the District of Columbia.
- When fully implemented, CAIR will reduce SO2 emissions in these states by over 70 percent and NOx emissions by over 60 percent from 2003 levels.
- This will result in \$85 to \$100 billion in health benefits and nearly \$2 billion in visibility benefits per year by 2015 and will substantially reduce premature mortality in the eastern United States. The benefits will continue to grow each year with further implementation.





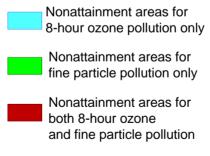


Projected
NAs
in 2010
and 2015
after
reductions
from
CAIR
and
existing
CAA
programs

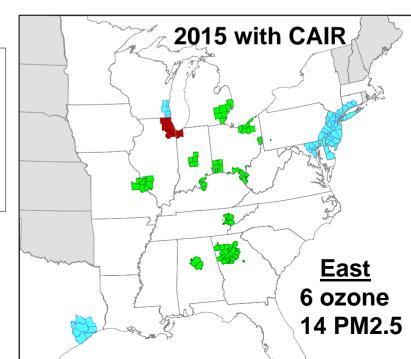


Ozone & Fine Particle Nonattainment (Apr. 05)

CAIR and Other CAA
Programs Will Help
Bring Many Eastern
Areas into Attainment
- However, a number
of areas are projected
to not attain through
2010 and 2015



Projections concerning future levels of air pollution in specific geographic locations were estimated using the best scientific models available. They are estimations, however, and should be characterized as such in any description. Actual results may vary significantly if any of the factors that influence air quality differ from the assumed values used in the projections shown here.





LADCO Process

- Lake Michigan Air Directors Consortium
 - http://www.ladco.org/
 - Forum for Midwest states to develop plans to meet the standards
 - Inventory, modeling, technical assistance, control strategy assessment, transparency
- Regional Workshops
- Technical and Qualitative Analyses for Mobile Source Control Measures

National Regulatory Program for Diesel Engines

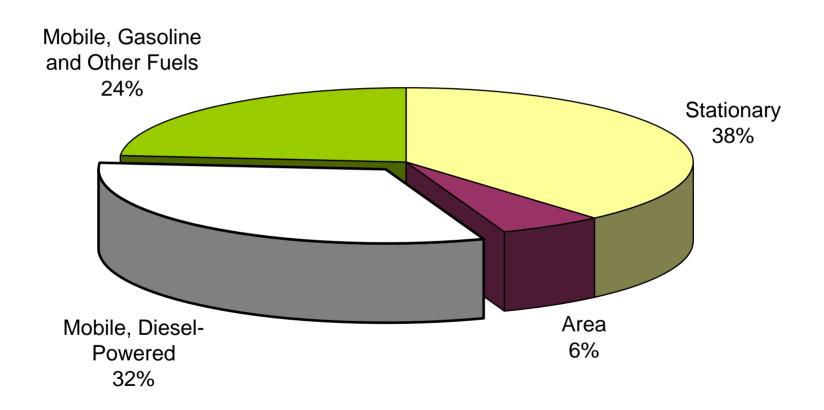


- Clean Diesel Truck and Bus Rule (Dec 2000)
- Clean Air Non-road Diesel Rule (May 2004)
- When fully implemented in 2030, these regulations will annually prevent up to:
 - 12,000 premature deaths,
 - one million lost work days,
 - 15,000 heart attacks, and
 - 6,000 children's asthma-related emergency room visits
- Combined, these stringent regulations will achieve over \$150 billion in benefits
- But what can be done with the 11 million engines in use today (estimated 3.3 million in the Midwest)?

MIDWEST CLEAN DIESEL

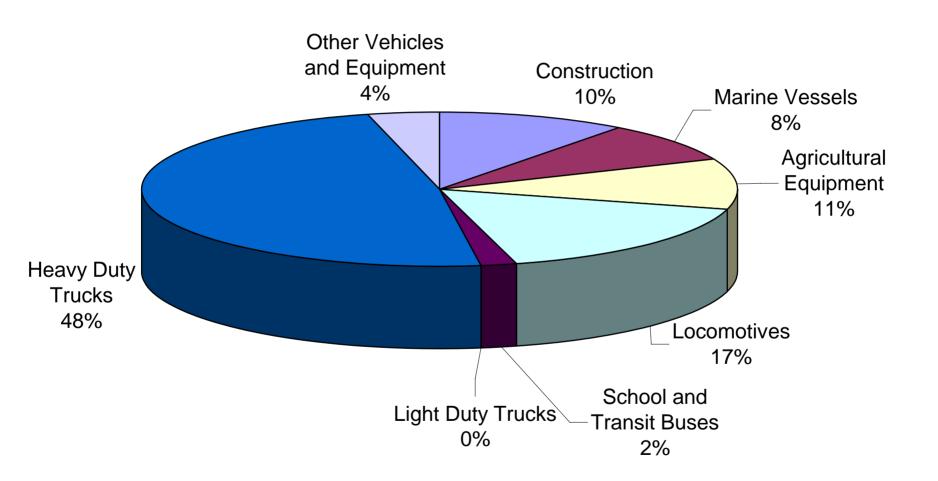
- Public-private partnership to accelerate diesel emission reductions in the Midwest
- Midwest Clean Diesel Initiative is part of the National Clean Diesel Campaign
 - Diesel exhaust contributes to ozone, particulate matter, and air toxics
 - Exacerbates asthma, causes respiratory and cardiovascular illness and contributes to premature deaths
 - Likely human carcinogen

Regional NOx Emissions



Source: 2002 National Emissions Inventory

Region 5 Diesel Engine NOx Emissions



Source: 2002 National Emissions Inventory

MIDWEST CLEAN DIESEL

- Approximately 3.3 million diesel engines in Region 5
- The goal is to reduce emissions from 1,000,000 diesel-powered engines by 2010
- Targeted sectors: Ports, Agriculture, and Rail
- Southeast Michigan/Canada Border Area
- Continue work on school buses, municipal vehicles, construction sector
- Reducing emissions and improving fuel economy through cleaner fuels, technological and operational improvements can save money, and improve a company's corporate image, while improving the quality of the air we breathe

Midwest Clean Diesel Initiative Accomplishments

- Partners are implementing many cost-saving and cost-effective strategies to reduce diesel emissions in the Midwest
- \$2.2 million to school districts across the Region – Clean School Bus USA
- \$6.6 million in Federal Supplemental Environmental Projects
- 90 SmartWay partners in the Midwest
- Two funding opportunities: Clean School Bus and Midwest Clean Diesel Initiative









The Power of Partnerships

www.epa.gov/midwestcleandiesel



Illinois Environmental Protection Agency





Indiana Department of Environmental Management





Minnesota Pollution Control Agency



















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